



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,776	08/31/2001	Andrej Kocev	15311-2310	1813
24267 759	90 06/06/2003			
CESARI AND MCKENNA, LLP 88 BLACK FALCON AVENUE BOSTON, MA 02210			EXAMINER	
			PHAM, THOMAS K	
			ART UNIT	PAPER NUMBER
			2121	
			DATE MAILED: 06/06/2003	·

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

Office Action Summary    Oglig44,776		•	Application No.	Applicant(s)						
Examiner			09/944,776	KOCEV ET AL	$\alpha$					
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this Communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extrainers of them any be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after 58 (b) MONTHS from the malining date of this communication.  If NO period for reply is specified above, the maximum staturory period will apply and will correctly 61 MONTHS from the malining date of this communication.  Failure to reply within the set or extended period for reply will, by stands, cause the application to become ABANDONED (38 U.S.C. § 133).  Any reply received by the Office later than three months after the malling date of this communication, even if timely filed, may reduce any example patent term adjustment. See 37 CFR 1.794(b).  Status  1) Responsive to communication(s) filed on 31 August 2001.  2a) This action is FINAL.  2b) This action is FINAL.  2b) This action is non-final.  3) Is che this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-10 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-10 is/are allowed.  6) Claim(s) 1-10 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) 1-10 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) 1-10 is/are rejected to.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) The processed drawing correction filed on is/are: a) accepted or b) objected to by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The propos		Office Action Summary			<u> </u>					
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<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ul>	a) All b) Some * c) None of:									
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	1. Certified copies of the priority documents have been received.									
application from the International Bureau (PCT Rule 17.2(a)).	2. Certified copies of the priority documents have been received in Application No									
* See the attached detailed Office action for a list of the certified copies not received.										
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).										
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.										
Attachment(s)	Attachmen	at(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152)  6) Other:	2) Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of							

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## Notice to Applicant(s)

1. Claims 1-10 of U.S. Application 09/944776 filed on 08/31/2001 are presented for examination.

### DETAILED ACTION

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurtzberg et al. U.S. Patent No. 6,360,263 (hereinafter Kurtzberg) in view of DeJager et al. U.S. Patent No. 6,473,424 (hereinafter DeJager).
- 4. As for claim 1, Kurtzberg teaches a method for programmably allocating system resources to accommodate a multiprocessor computer system comprising the steps of: determining the number and type of transactions (col. 1 lines 57-58), determining the number and type of devices being serviced (col. 2 lines 51-55). Kurtzberg does not specifically teach a method for programmably allocating system resources to accommodate I/O transactions at I/O ports comprising the steps of: setting criteria for transactions at the port with respect to the number and type of transactions and devices, assigning the system resources to the port with respect to the criteria. However, DeJager teaches a method for programmably allocating system resources to accommodate I/O transactions at I/O ports (col. 2 lines 50-56) comprising the steps

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of: setting criteria for transactions at the port with respect to the number and type of transactions and devices (col. 3 lines 21-24), assigning the system resources to the port with respect to the criteria (col. 3 lines 24-32). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the I/O ports allocating system of resources of DeJager with the allocating system of Kurtzberg because it would provide for adjusting the criteria respect to the loads or transactions at I/O ports in order to optimize the load distribution depending upon each port's current utilization.

- 5. As for claim 2, Kurtzberg does not specifically teach the method as defined in claim 1 further comprising the steps of: providing at least one control register for each port, wherein the control register includes a plurality of programmable fields. However, DeJager teaches the method providing at least one control register for each port, wherein the control register includes a plurality of programmable fields (col. 7 lines 14-18). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the I/O ports allocating system of resources of DeJager with the allocating system of Kurtzberg because it would provide for using one control register per port in order to determine the least utilized queue for additional load allocation at the port.
- 6. As for claim 3, Kurtzbert does not specifically teach the method as defined in claim 2 further comprising the steps of configuring the control register fields to contain a number of direct memory access engines available at a port to support a transaction, a number of cache lines for requested data, and a number representing priorities among the anticipated transactions.

  However, DeJager teaches the method comprising the steps of configuring the register fields to have a buffering capacity available at a port to support a transaction (col. 8 lines 39-43), and a

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process of comparing queue numbers to determine a number representing priorities among the anticipated transactions (col. 7 lines 31-37). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the I/O ports allocating system of resources of DeJager with the allocating system of Kurtzberg because it would provide for configuring the register fields to have a buffering capacity and a number representing priorities in order to balance the loads more effectively at the I/O ports.

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- 7. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurtzberg in view of DeJager and in further view of Wallach et al. U.S. Patent No. 6,173,346 (hereinafter Wallach).
- 8. As for claim 4, Kurtzbert and DeJager do not specifically teach the method as defined in claim 1 further comprising the step of preparing for hot swapping an assembly, wherein the preparing for hot swapping comprises, with respect to the assembly being replaced, copying the assembly's state, the state of its associated memory systems, its status and control registers, and the contents of its cache and memory systems. However, Wallach teaches the method comprising the step of preparing for hot swapping an assembly comprising: copying the assembly's state by removing the old assembly and program a new assembly to have at least the configuration associated with the configuration information as on the removed portion (col. 8 lines 24-37). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the hot swapping assembly of Wallach with the allocating system of Kurtzberg and DeJager because it would provide for preparing the hot swapping of an assembly by transferring the old configuration information into the new assembly before the assembly is hot swapped in order to prevent any lost of information.

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- 9. As for claim 5, Kurtzbert and DeJager do not specifically teach the method as defined in claim 4 wherein the copying comprises the steps of: flushing the data in the local cache and local memory to storage not affected by the hot swapping, invalidating data in cache, setting a flush indicator in the port's cache status and control register, flushing directory data to non-affected storage, finding and stopping any new transactions, completing any transactions already started or pending, flushing the translation look-aside buffers, invalidating the contents of the translation look-aside buffers, and updating the system directory. However, Wallach teaches the method of copying comprises the steps of: removing the old assembly and program a new assembly to have at least the configuration associated with the configuration information as on the removed portion (col. 8 lines 24-37), finding and suspending I/O state to freeze the old assembly (col. 18 lines 49-52), completing any pending transactions (col. 18 line 59 to col. 19 line 17), flushing old configuration of the old assembly (col. 8 lines 33-37). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the hot swapping assembly of Wallach with the allocating system of Kurtzberg and DeJager because it would provide for copying the old configuration of an assembly by transferring the old information into the new assembly before the assembly is hot swapped in order to maintain the same state of operation without any lost of information.
- 10. Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurtzberg et al. U.S. Patent No. 6,360,263 (hereinafter Kurtzberg) in view of DeJager et al. U.S. Patent No. 6,473,424 (hereinafter DeJager).

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- As for claim 6, Kurtzberg teaches a system for allocating system resources to 11. accommodate of a multiprocessor computer system comprising: the number and type of transactions anticipated at a port (col. 1 lines 57-58), number and type of devices being serviced via the port (col. 2 lines 51-55). Kurtzberg does not specifically teach a system for allocating system resources to accommodate I/O transactions at I/O ports of a multiprocessor computer system comprising: criteria for operations at the port with respect to the number and type of transactions and devices, means for assigning the system resources to the port with respect to the criteria. However, DeJager teaches a system for allocating system resources to accommodate I/O transactions at I/O ports of a multiprocessor computer system (col. 2 lines 50-56) comprising: criteria for operations at the port with respect to the number and type of transactions and devices (col. 3 lines 21-24), means for assigning the system resources to the port with respect to the criteria (col. 3 lines 24-32). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the I/O ports allocating system of resources of DeJager with the allocating system of Kurtzberg because it would provide for adjusting the criteria respect to the loads or transactions at I/O ports in order to optimize the load distribution depending upon each port's current utilization.
- 12. As for claim 7, Kurtzberg does not specifically teach the system as defined in claim 6 further comprising: at least one control register for each port, wherein the control register includes a plurality of programmable fields. However, DeJager teaches the system comprising: at least one control register for each port, wherein the control register includes a plurality of programmable fields (col. 7 lines 14-18). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the I/O ports allocating system of

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resources of DeJager with the allocating system of Kurtzberg because it would provide for using one control register per port in order to determine the least utilized queue for additional load allocation at the port.

- 13. As for claim 8, Kurtzberg does not specifically teach the system as defined in claim 7 wherein the control register fields include a number of direct memory access engines available at a port to support a transaction, a number of cache lines for requested data, and a number representing priorities among the anticipated transactions. However, DeJager teaches the system wherein the register fields is configured to have a buffering capacity available at a port to support a transaction (col. 8 lines 39-43), and a process of comparing queue numbers to determine a number representing priorities among the anticipated transactions (col. 7 lines 31-37). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the I/O ports allocating system of resources of DeJager with the allocating system of Kurtzberg because it would provide for configuring the register fields to have a buffering capacity and a number representing priorities in order to balance the loads more effectively at the I/O ports.
- 14. Claims 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurtzberg in view of DeJager and in further view of Wallach et al. U.S. Patent No. 6,173,346 (hereinafter Wallach).
- 15. As for claim 9, Kurtzberg and DeJager do not specifically teach the method as defined in claim 6 further comprising: means for hot swapping of an assembly, including means for copying the assembly's state, the state of its associated memory systems, its status and control registers, and the contents of its cache and memory systems. However, Wallach teaches the

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method comprising: means for hot swapping an assembly, including means for copying the assembly's state by removing the old assembly and program a new assembly to have at least the configuration associated with the configuration information as on the removed portion (col. 8 lines 24-37). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the hot swapping assembly of Wallach with the allocating system of Kurtzberg and DeJager because it would provide for hot swapping an assembly by transferring the old configuration information into the new assembly before the assembly is hot swapped in order to prevent any lost of information.

16. As for claim 10, Kurtzberg and DeJager do not specifically teach the system as defined in claim 9 wherein the means for copying comprises: means for flushing the data in the local cache and local memory to storage not affected by the hot swapping, means for flushing, modifying and invalidating unmodified data in cache, means for setting a flush indicator in the port's cache status and control register, means for flushing directory data to non-affected storage, means for finding and stopping any new transactions, means for completing any transactions already started or pending, means for flushing the translation look-aside buffers, means for invalidating the contents of the translation look-aside buffers, and means for updating the directory. However, Wallach teaches the system wherein copying comprises: removing the old assembly and program a new assembly to have at least the configuration associated with the configuration information as on the removed portion (col. 8 lines 24-37), finding and suspending I/O state to freeze the old assembly (col. 18 lines 49-52), completing any pending transactions (col. 18 line 59 to col. 19 line 17), flushing old configuration of the old assembly (col. 8 lines 33-37). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the hot

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swapping assembly of Wallach with the allocating system of Kurtzberg and DeJager because it would provide for copying the old configuration of an assembly by transferring the old information into the new assembly before the assembly is hot swapped in order to maintain the same state of operation without any lost of information.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Thomas Pham; whose telephone number is (703) 305-7587 and fax number is (703) 746-8874. The examiner can normally be reached on Monday-Friday from 7:30AM- 4:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee, can be reached on (703) 305-8498 or via e-mail addressed to [joh.follansbee@uspto.gov]. Any response to this office action should be mailed to: Director of Patents and Trademarks Washington, D.C. 20231, or Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive Arlington, Virginia, (Receptionist located on the 4th floor), or faxed. The following fax numbers apply:

Official (703) 746 - 7239 Non Official/ Draft (703) 746 - 7240 After Final (703) 746 - 7238

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to **[thomas.pham@uspto.gov]**.

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose relating to the status of this application should be directed to the Group receptionist whose relating to the status of this application should be directed to

Thomas K. Pham

OHN FOLLANSBEE Patent Examiner

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

tp June 2, 2003

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